

6TH INTERNATIONAL CONGRESS ON OCT ANGIOGRAPHY AND ADVANCES IN OCT



Rome

December 14 and 15, 2018

Ergife Palace Hotel

Via Aurelia, 619

Preliminary Program May 29, 2018

FRIDAY DECEMBER 14

COURSES

8.00 - 8.45		12.00 - 12.45	
HALL A	HALL B	HALL A	HALL B
OPTOVUE	HEIDELBERG	ZEISS	NIDEK

RETINA: AMD AND MACULOPATHIES

SESSION AMD 1

Chairs: Daniel Pauleikhof, David Sarraf, Srinivas Sadda, Nadia Waheed, Yves Cohen

Daniel Pauleikhof - Pigment epithelial detachment in exudative AMD

Nadia Waheed - Evolutive changes in wet AMD

Marco Lupidi, Felice Cardillo-Piccolino, Gabriel Coscas, Carlo Cagini - Hemodynamic variations in choroidal neovascular lesions

Aude Ambresin - Influence of structural OCT characteristics in the detection of CNV due to AMD using OCT Angiography

Yusuf Durlu - OCT and OCT Angiography findings in asymptomatic patients with exudative age-related macular degeneration

Key Note Lecture

David Sarraf - RAP: advanced retinal imaging of Type 3 NV

SESSION EXUDATIVE AMD 2

Chairs David Sarraf, Eric Souied

CLASSIFICATION OF ATROPHY AND NEOVASCULARIZATION IN AMD

Srinivas Sadda OR Frank Holz - OCT Classification of Atrophy in AMD

David Sarraf - OCTA classification of NV in AMD

Florence Coscas, Diogo Reis Cabral, Gabriel Coscas, Eric Souied - OCT Angiography biomarkers in n AMD

SESSION EXUDATIVE AMD 3

ADVANCED RETINAL IMAGING OF PED

Chairs: David Sarraf, Daniel Pauleikhof

Adrian Au - OCTA volumetric analysis of the progression of vascularized serous PED

David Sarraf - OCT and OCTA Evaluation of the mechanism of RPE tears associated with PED

Daniel Pauleikhoff - OCTA analysis to assess the response of PED to Anti VEGF therapy

SESSION EXUDATIVE CNV AMD 4

Chair: Rufino Silva

Rosa Dolz-Marco - Checklist of neurodegenerative changes in patients with AMD

Roberto Gallego-Pinazo - Relevance of the tomographic classification of CNV in patients with AMD

Miguel Raimundo - Sensitivity and specificity of a fully non-invasive approach (OCT+OCTA) for the diagnosis of wet AMD

João Pedro Marques - Nonexudative CNV in AMD

Marco Lupidi - Hemodynamics of choroidal Cnvs in AMD

Rufino Silva - OCTA in type 3 CNV and fellow eyes-

SESSION AMD 5

SESSION: NON-EXUDATIVE CHOROIDAL NEOVASCULARIZATION

Chairs: David Huang, Nadia Waheed, Philip J. Rosenfeld

David Huang - Non-exudative CNV is a precursor to exudation

Nadia Waheed - Vascularized drusen in age-related macular degeneration

Philip J. Rosenfeld - OCTA imaging of subclinical non-exudative macular neovascularization

Jeffrey Heier - Prophylactic ranibizumab for exudative age-related macular degeneration

Daniel Martin - Clinical trial of prophylactic anti-angiogenic therapy in high risk age-related macular degeneration

Key Note Lecture

Philip J Rosenfeld - Advances in choriocapillaris imaging (techniques) and imaging of the choriocapillaris in AMD

SESSION CNV IN HEREDITARY DYSTROPHIES AND OTHER CNV

Chairs: Martine Mauguet-Fajsse, Benjamin Wolff, Yves Salomon Cohen

Sabine Derrien, Elise Scemama-Boulanger, Elsa Laumonier, Benjamin Wolff, Flore DeBats, Vivien Vasseur, Martine Mauguet-Fajsse - Choroidal new vessels in hereditary dystrophies

Elisabetta Pilotto - Retinal function in vascularized fovea

Yves Salomon Cohen - Vascular Remodelling of myopic choroidal neovascularization treated with Ranibizumab

RETINA: RETINAL VASCULAR DISORDERS

DIABETIC RETINOPATHY 1

PATHWAYS OF DISEASE AND PHENOTYPES OF PROGRESSION IN DIABETIC RETINOPATHY

Chairs: José Cunha Vaz, Anat Loewenstein, Francesco Bandello

Edoardo Midena - Neurodegeneration

Isabel Pives - Retinal edema

Cristina Parravano - Microvascular changes

José Cunha Vaz - Microaneurysms turnover

Tiago Rodrigues - Peripapillary and macular neurovascular coupling in early diabetic retinopathy

SESSION DIABETIC RETINOPATHY 2

Chairs: Francesco Bandello, Nadia Waheed, Anat Loewenstein

Sobha Sivaprasad - Imaging and management of PDR

José Cunha-Vaz - Biomarkers of diabetic retinopathy progression and treatment response

Patricia Udoando - Steroids or VEGF for diabetic retinopathy- imaging parameters and clinical use

Dafna Goldenberg - OCT and OCTA in diabetic macular edema

Marco Lupidi, Felice Cardillo-Piccolino, Anna Caricato, Gabriel Coscas, Carlo Cagini - OCT-Angiography assessment of retinal neovascularizations in proliferative diabetic retinopathy

SESSION DIABETIC RETINOPATHY 3

SESSION RETINAL LEAKAGE

Chair: José Cunha Vaz

João Pedro Marques - OCT-Leakage. A non-invasive alternative to fluorescein Angiography

José Cunha-Vaz - OCT-leakage. Role in the characterization of retinal edema

Claudia Farinha - OCT-Leakage in neovascular AMD. Identification of CNV activity

SESSION MACULAR EDEMA

Chairs: Amir Kashani., Michel Paques

Amir Kashani - Retinal vascular changes associated with macular edema

Michel Paques - Photoreceptor misalignment: a common complication of macular edema

Edoardo Midena - The pathophysiology of early diabetic retinopathy the integration of OCTA and retinal function tests

Marion Munk - The impact of GCL cysts in DME

SESSION Mac Tel 2

Chair Daniel Pauleikhof

Daniel Pauleikhof - Progression of vascular changes in OCT-A in macular Teleangiectasis type 2

SESSION TREATMENT AMD AND VASCULAR DISORDERS

Chair: Edoardo Midena

Sandro Saviano - DME: diversified treatments according to patients

Simone Donati - Diabetic retinopathy with or without DME: new treatment options

OTHER RETINAL DISORDERS

SESSION PEDIATRICS

Chairs: Xavier Zanlonghi, Ourida Ouhadj

R. Chigara, A. Haddad, Ourida Ouhadj - Intravitreal anti-VEGF in retinopathy of prematurity management
Isa Sobral - OCTA in Amblyopia

SESSION OCT ANGIOGRAPHY AND WHITE DOT SYNDROMES

Chair: Albert Augustin

Albert Augustin - Update: OCT Angiography and multi-modal imaging in the diagnosis of White Dot-Syndromes

Piergiorgio Neri - Acute posterior multifocal placoid pigment epitheliopathy and Birdshot

Carreño Ester - Chorioretinopathy: Multi-modal evaluation with the aim of OCT Angiography

Di Carlo Emiliano - The role of OCT Angiography in the management of Punctate Inner Choroidopathy and Serpiginous Choroiditis

Pichi Francesco - Multi-modal imaging approach to multiple evanescent White Dot Syndrome

SESSION OCT ANGIOGRAPHY AND UVEITIS 1 IMAGING OUTCOMES AND ENDPOINTS IN UVEITIS CLINICAL STUDIES

Chairs: Quan Dong Nguyen, Vishali Gupta

Aniruddha Agarwal - TBC

Andrew Dick - TBC

Vishali Gupta - TBC

Phuc LeHoang - TBC

Elisabetta Miserocchi - TBC

Quan Dong Nguyen - TBC

Harvey Uy - TBC

SESSION OCT ANGIOGRAPHY AND UVEITIS 2

SESSION OCT-A AND BEYOND MULTIMODAL IMAGING IN UVEITIS: INSIGHTS INTO PATHOLOGY FROM TECHNOLOGY *Chair: Marion Munk*

Amir Kashani - Longitudinal analysis of retinal vascular changes in subjects with Uveitis

Dilraj Grewal - DRIL in uveitis associated CME

Francesco Pichi - Wide-field OCTA analysis of leakage in retinal vasculitis

Michal Kramer - Inflammatory chorioretinopathies: what have we learned from OCT-A

Debra Goldstein - Imaging in the assessment of disease activity in Birdshot

Emmett Cunningham - Multimodal imaging of checkpoint inhibitor-induced Uveitis

SESSION ONCOLOGY

Chair: Leonidas Zografos

Michel Paques, Sarah Tick - Radiation retinopathy and choroidopathy: new insights from multimodal imaging

Raffaele Parrozzani - OCTA peripapillary circulation in radiation retinopathy

SESSION OTHER RETINAL DISORDERS 1

Chairs: Martine Mauget-Fajssse, Benjamin Wolff

Claire Scemama-Timsit, Elise Scemama-Boulanger, Elsa Laumonier, Sabine Derrien, Vivien Vasseur, Cédric Lamirel, Martine Mauget-Fajssse - Retinal OCT as a marker in patients with dominant atrophy and Wolfram syndrome.

Vivien Vasseur, Martine Mauget-Fajssse - En face OCT interdigitation zone analysis

Martine Mauget-Fajssse, Vivien Vasseur, Romain Deschamps - Acute macular neuropathy: a new risk factor

Céline Giraud, Catherine Favard, Vivien Vasseur, Benjamin Wolff, Martine Mauget-Fajssse - OCT-A PCV classification

SESSION OTHER RETINAL DISORDERS 2

Chairs: Martine Mauget-Fajssse, Luisa Pierro, Marco Lupidi

Luisa Pierro - High Hyperreflective Spikes, HFS, a new SDOCT foveal abnormality sign

Anna Cerquaglia, Marco Lupidi, Carlo Cagini - New-insights on ocular Sarcoidosis: an OCT-Angiography assessment

Catherine Favard, Eric Frau, Sarah Tick, Martine Mauget-Fajssse - Contribution of SSOC and SSOC-Angiography to the analysis of Circumscribed Choroidal Hemangiomas

TBC - OCT-A: age-related changes

Ugo Introini - Focal Choroidal Excavation

Keynote Lecture (15 minuti)

K. Bailey Freund - Update on Pachychoroid disease

SESSION: TECHNOLOGY 1

Chair: James Fujimoto

ADVANCES IN OCT TECHNOLOGY

Robert Huber - TBC
James Fujimoto - TBC
Micheal Pircher - TBC
Yoshiaki Yasuno - TBC
Claude Boccara - TBC

SESSION: TECHNOLOGY 2

Chair: James Fujimoto

NEW IMAGING TECHNOLOGIES AND METHODS

Sebastian Wolf - TBC
Hao Zhang - TBC
Vivek Srinivasan - TBC
Ravi Jonnal - TBC

SESSION: FUTURE OF TECHNOLOGY BY INDUSTRY TOP MANAGERS

Chairs: James Fujimoto, Bruno Lumbroso

Optovue - **Jay Wei**
Zeiss - **Angelo Rago?**
Nidek - **Riccardo Ferraris de Gaspare** - Future of Multimodal Wide Field Imaging
Topcon - TBC
Heidelberg Engineering - **Kester Nahen**
Optopol - **Arkadiusz Chalecki** - Newest OCT developments

SESSION: TECHNOLOGICAL DEVELOPMENTS BY CLINICIANS AND ENGINEERS

Chairs: James Fujimoto, Wolfgang Drexler, Philip J. Rosenfeld

Optovue - - TBC
Zeiss - - TBC
Nidek - **Riccardo Ferraris de Gaspare** - Next phase of Nidek OCT
Topcon - - TBC
Heidelberg Engineering - - TBC
Canon - - TBC
Optopol - **Bartosz Sikorski** - Biometry and Keratometry OCT in clinical practice
Eidon Centervue -

SESSION: APPLICATIONS OF PROJECTION-RESOLVED OCTA

Chair: David Huang

David Huang - Classification of choroidal neovascularization using projection-resolved OCTA
David Huang - Unequal flow alteration in retinal plexuses in different conditions – evidence against series circuit model of retinal blood flow
David Huang - Early detection of diabetic retinopathy with projection-resolved OCTA
Amani Fawzi - Plexus-specific manifestations of retinal diseases
Min Wang - Clinical application of 3D PAR of OCT Angiography

SESSION IMAGING AND HISTOLOGY

SESSION: HISTOLOGICAL VALIDATION OF OCT SIGNATURES IN AMD

Chairs: Christine A. Curcio, K. Bailey Freund

Christine A. Curcio - Optimizing tissue recovery, preparation, and microscopy of human donor eyes for imaging-histology correlations in AMD
Rosa Dolz-Marco - Clinicopathologic correlation of geographic atrophy in AMD
Daniela Ferrara - What did we learn about GA from clinicopathologic correlation?
Miaoling Li - Clinicopathologic correlation of aneurysmal type 1 neovascularization (aka PCV) in AMD
Belinda C.S. Leong - RPE migration in AMD
Serena Fragiotta - The nature and origin RPE apertures

SESSION OCT - HISTOLOGY WORTH PAYING ATTENTION TO, FOR OCT

Chair: Christine Curcio

Gerard A. Luttj - Choriocapillaris health and degeneration at different stages of AMD

Dennis M. Dacey - A connectomics approach to understanding variation in human foveal morphology;
Andreas Pollreisz - Reflective organelles in human RPE visualized via volume electron microscopy
John M. Nickerson - Retinal pigment epithelium morphology in experimental wound healing treatment
Benjamin S. Sajdak - Imaging-histology correlations in cone-dominated retinas

PATHOPHYSIOLOGICAL MECHANISMS IN THE RETINAL CAPILLARY PLEXUS

Chairs: David Sarraf, Michel Paques, David Huang

David Huang - Oxygen saturation levels in the trilaminar retinal capillary plexus
Michel Paques - Arterial inflow and venous outflow in the retinal capillary plexus
David Sarraf - The ischemic cascade in the retinal capillary plexus

MULLER CELL IN MACULAR DISEASE

Chair: David Sarraf

Christine Curcio - Muller Cell in macular disease: clinicopathologic concepts and correlations
Andrea Govetto - The Muller Cell Cone and the development of Macular Holes
Eduardo Navajas - Progression of Inner Retinal Dimples after ILM Removal

SESSION RELATION BETWEEN IMAGING AND MOLECULAR BIOMARKERS

Chairs: Yasir J. Sepah, Aniruddha Agarwal, Quan Dong Nguyen

Itay Chowers - TBC
Kunal Dansingani - TBC
Alessandro Invernizzi - TBC
Vinit Mahajan - TBC
Darius Moshfeghi - TBC
Yasir J. Sepah - TBC
Syed Mahmood Shah - TBC

ROUND TABLE: OCTA AND EVERYDAY OPHTHALMOLOGY TODAY

Philip J. Rosenfeld, Bruno Lumbroso, Caroline Baumal, Karl Csaky

How has OCTA has changed clinical management? (Not a debate: examples of how we have changed the care of patients.)

SESSION: TRANSLATIONAL ADAPTIVE OPTICS RETINAL IMAGING.

Chairs: Alfredo Dubra, Marco Lombardo

Robert Zawadzki - TBC
Ravi Jonnal - TBC
Alfredo Dubra - TBC
Joel Schuman - TBC
Michael Pircher - TBC
Don Miller - TBC

Rishard Weitz - New recent innovations in the field of Adaptive Optics Confocal Microscopy

QUICK FIRE SESSION

Anita Leys, Martine Mauget Faysse, Gabriele Thumann

SATURDAY DECEMBER 15

COURSES			
8.00 - 8.45		12.00 - 12.45	
HALL A	HALL B	HALL A	HALL B
OPTOVUE		LUNCH TOPCON	

SESSION: CONTROVERSIES REGARDING THE NORMAL CIRCULATION

Chair: Srinivas Sadda

David Huang - Organization and nomenclature for the retinal circulation
David Sarraf - The retinal capillaries are organized in series.
Srinivas Sadda - New insights into the retinal circulation revealed by high-resolution OCT-A

SESSION WIDE FIELD 1

Chairs: Paolo Lanzetta, Jean Michel Muratet

Jean-Michel Muratet - Oct Angiography and non midiatric confocal retinopathy

Rishard Weitz - New recent innovations in the field wide-field retinal imaging

SESSION: WIDE FIELD OCTA 2, PERIPHERAL CAPILLARY PERFUSION

Chairs: Alain Gaudric, Bailey K. Freund, José Cunha-Vaz

Aude Couturier - Comparison between capillary perfusion on UWF FA and capillary flow detection od WF SwS OCTA

Benedicte Dupas - Absence of capillary reperfusion of peripheral retinal capillaries after ant VEGF treatment in DR

Bailey K. Freund or David Sarraf - Venous collaterals in sequelae of BRVO

Valerie Krivosic - Familial retinal arterial tortuosity

TBC - Effect of PRP on retinal capillary vasculature

NEW DEVELOPMENTS IN IMAGING

SESSION ARTIFICIAL INTELLIGENCE in RETINAL IMAGING (including OCTA AND OCT)

Chairs: Caroline Baumal, Anat Loewenstein

Ursula Schmidt-Erfurth - The future of AI in retina

Mrvoje Bogunovic - Fluid and function – an analysis by AI

Karl Csaky - Human computational analysis input in machine learning of OCT Images

Sunny Virmani (Google) - AI in Retinal Imaging

Dante Pieramici - Leveraging machine learning to diagnose referable retinal diseases in “developing Countries”

CHORIO CAPILLARIS AND CHOROID

SESSION: Choroid 1

CHORIOCAPILLARIS OCTA EVALUATION OF THE CHORIOCAPILLARIS

Chairs: David Sarraf, Srinivas Sadda

David Sarraf - Pathoanatomical considerations in evaluation of the choriocapillaris and choroid

Enrico Borrelli - Swept Source OCTA evaluation of the choriocapillaris in AMD

Srinivas Sadda - Future directions in the evaluation of the choroid

SESSION: CHOROID 2 Study By Ss-Oct And Oct-A

Chair: José Maria Ruiz-Moreno:

Francine Behar-Cohen - CNV in CSCR

Rufino Silva - Choroid in polypoidal vasculopathy

Luis Arias - Choroid in RAP.

Jorge Ruiz-Medrano - Choroid in atrophic AMD

José Maria Ruiz-Moreno - Vascular density study by OCTA: Age related changes

QUANTITATIVE OCTA 1

Chairs: Richard Rosen, Amir Kashani

Amir Kashani - Quantitative OCTA metrics for assessing DR progression

Florence Coscas, Diogo Ries Cabral, Gabriel Coscas, Eric Souied – OCT Angiography biomarkers in remission nAMD

Diogo Reis Cabral, Florence Coscas, T. Pereira, Marta Vila-Franca, Alexandre Pedinielli, Alexandra Miere, Alexandre Sellam, Gabriel Coscas, Eric Souied - Quantitative OCT-Angiography for neovascular age related macular degeneration: Six months follow-up study

Daniel Pauleikhof - Mathematical characterization of CNV in AMD with OCT Angiography

Marion Munk - Cataract significantly influences quantitative measurements on swept-source optical coherence tomography angiography imaging

SESSION QUANTITATIVE OCTA 2

MEASUREMENTS OF CAPILLARY DROP OUT IN DIABETIC RETINOPATHY

Chairs: José Cunha Vaz, Richard Rosen

Luis Mendes

Giuseppe Querques

Richard Rosen

Alain Gaudric, Benedicte Dupas

José Cunha Vaz - Capillary dropout and disease progression

SESSION: QUANTITATIVE OCTA 3

VESSEL DENSITY: RELIABILITY AND LIMITATIONS

Chairs: Alain Gaudric, David Sarraf

Campbell - What is the right segmentation to isolate the 4 retinal capillary layers?

Alain Gaudric - Normal vessel density in the macula, using projection artifact removal

Amir Kashani - Normal vessel density in the macula, using projection artifact removal

Richard Rosen - FAZ metrics or vessel density: what are the best parameters to measure capillary non perfusion?

TBC - Factors influencing retinal vessel density measurements

TBC - Macular vascular density, FAZ and Visual Acuity in diabetic retinopathy without macular edema

Salas Matthias - Role of AO OCTA in the assessment of retinal capillary anatomy

OPTIC NERVE, NEUROLOGY, GLAUCOMA

SESSION NEUROOPHTHALMOLOGY 1

Chairs: Albert Augustin, Richard Rosen

Albert Augustin - OCT angiography and *en face* OCT in neuroophthalmology, update.

Richard Rosen - The role of OCT A in the diagnosis and management of Optic Neuropathies

Umur Kayabasi - Arteritic vs. Non Arteritic anterior ischemic optic neuropathy: vascular analysis of the optic nerve head

Gilda Cennamo - Assessment of the peripapillary vascular network in hereditary Optic Neuropathies

Marco Lupidi - OCTA in the evaluation of optic neuritis during the course of Multiple Sclerosis

Dilraj Grewal - Retinal microvasculature and neurodegenerative changes among Alzheimer's Disease, Mild cognitive impairment, and controls

SESSION NEUROOPHTHALMOLOGY 2

ANGIO-OCT AND OCT IN NEURO-OPHTHALMIC DISEASES

Chairs: Y. Joyce Liao, Randy Kardon, Quan Dong Nguyen

Shannon Beres - TBC

Isabella Grumbach - TBC

Randy Kardon - TBC

Mark Kupersmith - TBC

Y. Joyce Liao - TBC

Heather Moss - TBC

Min Wang - TBC

SESSION NEUROOPHTHALMOLOGY 3

Chairs: Albert Augustin, Amar Ailem, Gilda Cennamo

Amar Ailem - Neuropathies optiques inflammatoires et OCT

Umur Kayabashi - Novel SD-OCT and OCT-A findings in Alzheimer's, Parkinson's and MS

Gilda Cennamo - OCTA detects retinal vascular alterations in different phases of Multiple Sclerosis

João Pedro Marques - Peripapillary and macular neurovascular coupling in dominant Optic Atrophy

SESSION: OCTA IN GLAUCOMA 1

Chairs: David Huang, Natalia I. Kurysheva, Richard Rosen, Gabor Hollo

David Huang - Simulating visual field with OCTA

David Huang - Localizing glaucoma damage with OCTA

Linda Zangwill - Utility of OCTA from early to late Glaucoma

Natalia I. Kurysheva - OCTA in the prediction of Glaucoma

Richard Rosen - Quantitative OCTA for glaucoma assessment

Gabor Hollo - Detecting Glaucoma progression with OCTA

Goji Tomita - Focal macular ERG and OCTA in early Glaucoma

SESSION: OCTA IN GLAUCOMA 2

Chairs: David Huang, Natalia I. Kurysheva, Saja Sefic Kasumovic

Sanja Sefić Kasumović, Aida Kasumović, Tarik Halimić, Nesina Avdagić - Assessment of perfused peripapillary capillaries and PCD maps in Glaucoma patients

Umur Kayabashi - Detection of pre-perimetric POAG by OCT macular ganglion cell complex analysis and OCT-A of optic nerve fiber layer. A comparison of both methods

SESSION OCT/OCTA AS AN ENDPOINT FOR CLINICAL TRIALS

Chairs Caroline Baumal, Karl Czaky, Philip J. Rosenfeld

Philip J. Rosenfeld - OCTA in prospective clinical studies (get all the reading centers involved and investigators)

IMAGING OUTCOMES AND ENDPOINTS IN RETINAL VASCULAR DISEASE CLINICAL TRIALS

Chairs Quan Dong Nguyen, Tien Ying Wong

Diana Do - TBC

Jeff S. Heier - TBC

Jean-Francois Korobelnik - TBC

Theodore Leng - TBC

Philip J. Rosenfeld - TBC

Ruwan Silva - TBC

Tien Ying Wong - TBC

THE ROLE OF READING CENTERS IN CLINICAL TRIALS – A SYMPOSIUM

Moderators: Quan Dong Nguyen, Brandon Lujan,

Panelists:

Barbara Blodi

Brandon Lujan

Srinivas Sadda, or Michael Ip

Yasir J. Sepah

Nadia Waheed

Sebastian Wolf

IMAGE GALLERY

Joe Carroll, Brandon Lujan